RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10534,894
Source:

Date Processed by STIC: S-25-0S

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 05/25/2005 PATENT APPLICATION: US/10/534,894 TIME: 11:40:08

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\05252005\J534894.raw

```
3 <110> APPLICANT: SHANGHAI INSTITUTES FOR BIOLOGICAL SCIENCES, CAS
      5 <120> TITLE OF INVENTION: METHOD OF DIAGNOSING AND TREATING BALDNESS USING HUMAN AND
MOUSE RHOR
              GENE AND CODED PRODUCT THEREOF
      6
      8 <130> FILE REFERENCE: 026816 pc
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/534,894
C--> 10 <141> CURRENT FILING DATE: 2005-05-13
     10 <150> PRIOR APPLICATION NUMBER: CN 02145353.9
     11 <151> PRIOR FILING DATE: 2002-11-13
     13 <160> NUMBER OF SEQ ID NOS: 14
     15 <170> SOFTWARE: PatentIn version 3.1
     17 <210> SEQ ID NO: 1
     18 <211> LENGTH: 2484
     19 <212> TYPE: DNA
     20 <213> ORGANISM: Mus musculus
    22 <220> FEATURE:
     23 <221> NAME/KEY: CDS
     24 <222> LOCATION: (1)..(2481)
     25 <223> OTHER INFORMATION:
W--> 28 < 400 > 1
     29 atg gcc tca gct gac aag aat ggc agc aac ctc cca tct gtg tct ggt
                                                                               48
    30 Met Ala Ser Ala Asp Lys Asn Gly Ser Asn Leu Pro Ser Val Ser Gly
     33 age ege etg cag age egg aag eea eee aac ete tee ate ace ate eeg
                                                                               96
    34 Ser Arg Leu Gln Ser Arg Lys Pro Pro Asn Leu Ser Ile Thr Ile Pro
                                        25
    37 cca cca gag agc cag gcc ccc ggc gag cag gat agc atg ctt cct gag
                                                                              144
    38 Pro Pro Glu Ser Gln Ala Pro Gly Glu Gln Asp Ser Met Leu Pro Glu
                                    40
    41 agg cgc aag aac cca gcc tac ctg aag agt gtc agc cta cag gag ccc
                                                                              192
    42 Arg Arg Lys Asn Pro Ala Tyr Leu Lys Ser Val Ser Leu Gln Glu Pro
                                55
    45 cgg gga cga tgg cag gag ggc gca gag aag cgc ccc ggc ttc cgc cgc
                                                                              240
    46 Arg Gly Arg Trp Gln Glu Gly Ala Glu Lys Arg Pro Gly Phe Arg Arg
    47 65
                            70
    49 cag gcc tcc ctg tcc cag agc atc cgc aag agc aca gcc cag tgg ttt
                                                                              288
    50 Gln Ala Ser Leu Ser Gln Ser Ile Arg Lys Ser Thr Ala Gln Trp Phe
                                            90
    53 ggg gtc agc ggc gac tgg gag ggc aag cga caa aac tgg cat cgc
                                                                              336
    54 Gly Val Ser Gly Asp Trp Glu Gly Lys Arg Gln Asn Trp His Arg Arg
                   100
                                        105
    57 ago etg cac cac tge ago gtg cac tat gge ege etc aag gee teg tge
                                                                              384
    58 Ser Leu His His Cys Ser Val His Tyr Gly Arg Leu Lys Ala Ser Cys
```

120

125

115

59

Input Set : A:\PTO.RJ.txt

61 cag aga gaa ctg gag ctg ccc agc cag gag gtg cca tcc ttc cag ggc 62 Gln Arg Glu Leu Glu Leu Pro Ser Gln Glu Val Pro Ser Phe Gln Gly 63 130 135 140 65 act gag tct cca aaa ccg tgc aag atg ccc aag att gtg gat cca ctg 66 Thr Glu Ser Pro Lys Pro Cys Lys Met Pro Lys Ile Val Asp Pro Leu 67 145 150 155 160 69 gct cgg ggt agg gcc ttc cgc cat cca gat gag gtg gac cgg cct cac	432
63 130 135 140 65 act gag tct cca aaa ccg tgc aag atg ccc aag att gtg gat cca ctg 66 Thr Glu Ser Pro Lys Pro Cys Lys Met Pro Lys Ile Val Asp Pro Leu 67 145 150 155 160	480
65 act gag tct cca aaa ccg tgc aag atg ccc aag att gtg gat cca ctg 66 Thr Glu Ser Pro Lys Pro Cys Lys Met Pro Lys Ile Val Asp Pro Leu 67 145 150 155 160	480
66 Thr Glu Ser Pro Lys Pro Cys Lys Met Pro Lys Ile Val Asp Pro Leu 67 145 150 155 160	480
67 145 150 155 160	
69 gct cgg ggt agg gcc ttc cgc cat cca gat gag gtg gac cgg cct cac	
	528
70 Ala Arg Gly Arg Ala Phe Arg His Pro Asp Glu Val Asp Arg Pro His	
71 165 170 175	
73 gct gcc cac cca cct ctg act cca ggg gtc ctg tct ctc aca tcc ttc	576
74 Ala Ala His Pro Pro Leu Thr Pro Gly Val Leu Ser Leu Thr Ser Phe	
75 180 185 190	
77 acc agt gtc cgc tct ggc tac tcc cat ctg ccc cgc cgc aag agg ata	624
78 Thr Ser Val Arg Ser Gly Tyr Ser His Leu Pro Arg Arg Lys Arg Ile	
79 195 200 205	
81 tct gtt gcc cat atg agc ttt cag gca gcc gcc gcc ctc ctc aag ggg	672
82 Ser Val Ala His Met Ser Phe Gln Ala Ala Ala Leu Leu Lys Gly	
83 210 215 220	
85 cgt tcc gtg cta gat gcg act ggg cag cgg tgc cgg cat gtc aaa cgc	720
86 Arg Ser Val Leu Asp Ala Thr Gly Gln Arg Cys Arg His Val Lys Arg	•
87 225 230 235 240	
89 agc ttc gct tac ccc agc ttc ctg gag gag gat gct gtc gat gga gct	
90 Ser Phe Ala Tyr Pro Ser Phe Leu Glu Glu Asp Ala Val Asp Gly Ala	768
91 245 250 255	768
	768
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg	768 816
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met	
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95 260 265 270	816
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95 260 265 270 97 cct gac gat gtc ttt gag tcc ccc cca ctc tct gcc agc tac ttc cga	
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95 260 265 270 97 cct gac gat gtc ttt gag tcc ccc cca ctc tct gcc agc tac ttc cga 98 Pro Asp Asp Val Phe Glu Ser Pro Pro Leu Ser Ala Ser Tyr Phe Arg	816
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95 260 265 270 97 cct gac gat gtc ttt gag tcc ccc cca ctc tct gcc agc tac ttc cga 98 Pro Asp Asp Val Phe Glu Ser Pro Pro Leu Ser Ala Ser Tyr Phe Arg 99 275 280 285	816 864
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95 260 265 270 97 cct gac gat gtc ttt gag tcc ccc cca ctc tct gcc agc tac ttc cga 98 Pro Asp Asp Val Phe Glu Ser Pro Pro Leu Ser Ala Ser Tyr Phe Arg 99 275 280 285 101 ggt gtc cca cac tct gcc tcc ccg gtc tcc ccg gat gga gtg cac atc	816
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95 260 270 97 cct gac gat gtc ttt gag tcc ccc cca ctc tct gcc agc tac ttc cga 98 Pro Asp Asp Val Phe Glu Ser Pro Pro Leu Ser Ala Ser Tyr Phe Arg 99 275 280 285 101 ggt gtc cca cac tct gcc tcc ccg gtc tcc ccg gat gga gtg cac atc 102 Gly Val Pro His Ser Ala Ser Pro Val Ser Pro Asp Gly Val His Ile	816 864
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95 260 265 270 97 cct gac gat gtc ttt gag tcc ccc cca ctc tct gcc agc tac ttc cga 98 Pro Asp Asp Val Phe Glu Ser Pro Pro Leu Ser Ala Ser Tyr Phe Arg 99 275 280 285 101 ggt gtc cca cac tct gcc tcc ccg gtc tcc ccg gat gga gtg cac atc 102 Gly Val Pro His Ser Ala Ser Pro Val Ser Pro Asp Gly Val His Ile 103 290 295 300	816 864 912
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95 260 265 270 97 cct gac gat gtc ttt gag tcc ccc cca ctc tct gcc agc tac ttc cga 98 Pro Asp Asp Val Phe Glu Ser Pro Pro Leu Ser Ala Ser Tyr Phe Arg 99 275 280 285 101 ggt gtc cca cac tct gcc tcc ccg gtc tcc ccg gat gga gtg cac atc 102 Gly Val Pro His Ser Ala Ser Pro Val Ser Pro Asp Gly Val His Ile 103 290 295 300 105 ccg cta aaa gaa tac agc ggt ggc cga gcc ctg ggt ccc ggg acc cag	816 864
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95 260 265 270 97 cct gac gat gtc ttt gag tcc ccc cca ctc tct gcc agc tac ttc cga 98 Pro Asp Asp Val Phe Glu Ser Pro Pro Leu Ser Ala Ser Tyr Phe Arg 99 275 280 285 101 ggt gtc cca cac tct gcc tcc ccg gtc tcc ccg gat gga gtg cac atc 102 Gly Val Pro His Ser Ala Ser Pro Val Ser Pro Asp Gly Val His Ile 103 290 295 300 105 ccg cta aaa gaa tac agc ggt ggc cga gcc ctg ggt ccc ggg acc cag 106 Pro Leu Lys Glu Tyr Ser Gly Gly Arg Ala Leu Gly Pro Gly Thr Gln	816 864 912
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95 260 265 270 97 cct gac gat gtc ttt gag tcc ccc cca ctc tct gcc agc tac ttc cga 98 Pro Asp Asp Val Phe Glu Ser Pro Pro Leu Ser Ala Ser Tyr Phe Arg 99 275 280 285 101 ggt gtc cca cac tct gcc tcc ccg gtc tcc ccg gat gga gtg cac atc 102 Gly Val Pro His Ser Ala Ser Pro Val Ser Pro Asp Gly Val His Ile 103 290 295 300 105 ccg cta aaa gaa tac agc ggt ggc cga gcc ctg ggt ccc ggg acc cag 106 Pro Leu Lys Glu Tyr Ser Gly Gly Arg Ala Leu Gly Pro Gly Thr Gln 107 305 310 315 320	816 864 912 960
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95 260 265 270 97 cct gac gat gtc ttt gag tcc ccc cca ctc tct gcc agc tac ttc cga 98 Pro Asp Asp Val Phe Glu Ser Pro Pro Leu Ser Ala Ser Tyr Phe Arg 99 275 280 285 101 ggt gtc cca cac tct gcc tcc ccg gtc tcc ccg gat gga gtg cac atc 102 Gly Val Pro His Ser Ala Ser Pro Val Ser Pro Asp Gly Val His Ile 103 290 295 300 105 ccg cta aaa gaa tac agc ggt ggc cga gcc ctg ggt ccc ggg acc cag 106 Pro Leu Lys Glu Tyr Ser Gly Gly Arg Ala Leu Gly Pro Gly Thr Gln 107 305 310 315 320 109 cgt ggc aaa cgc att gcc tcc aaa gta aag cac ttt gca ttt gac cgg	816 864 912
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95	816 864 912 960
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95	816 864 912 960
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95	816 864 912 960
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95	816 864 912 960
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95	816 864 912 960 1008
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95 260 265 270 97 cct gac gat gtc ttt gag tcc ccc cca ctc tct gcc agc tac ttc cga 98 Pro Asp Asp Val Phe Glu Ser Pro Pro Leu Ser Ala Ser Tyr Phe Arg 99 275 280 285 101 ggt gtc cca cac tct gcc tcc ccg gtc tcc ccg gat gga gtg cac atc 102 Gly Val Pro His Ser Ala Ser Pro Val Ser Pro Asp Gly Val His Ile 103 290 295 300 105 ccg cta aaa gaa tac agc ggt ggc cga gcc ctg ggt ccc ggg acc cag 106 Pro Leu Lys Glu Tyr Ser Gly Gly Arg Ala Leu Gly Pro Gly Thr Gln 107 305 310 315 320 109 cgt ggc aaa cgc att gcc tcc aaa gta aag cac ttt gca ttt gac cgg 110 Arg Gly Lys Arg Ile Ala Ser Lys Val Lys His Phe Ala Phe Asp Arg 111 325 330 335 113 aag aag agg cac tac ggc ctg ggt gtc gtg ggt aac tgg ctc aac cga 114 Lys Lys Arg His Tyr Gly Leu Gly Val Val Gly Asn Trp Leu Asn Arg 115 340 345 350 117 agc tat cga cgc agc atc agc agc acc gtg cag ccg cgg cgg cgg cgg cgg cgg cgg cg	816 864 912 960
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95	816 864 912 960 1008
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95	816 864 912 960 1008 1056
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95	816 864 912 960 1008
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95	816 864 912 960 1008 1056
93 gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg 94 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met 95	816 864 912 960 1008 1056

Input Set : A:\PTO.RJ.txt

	Ile 385	Ile	Ile	Thr	Leu	Leu 390	Val	Ile	Cys	Thr	Tyr 395	Gly	Ile	Ala	Pro	Val 400	
							acc Thr										1248
							tac Tyr										1296
137				att			att Ile		ctg					tcg			1344
			_	_	_		att Ile 455		_	_	_				_	-	1392
145 146		gag					tgc Cys					gac					1440
149	atc					aag	gac Asp				act					gta	1488
15 3			_		gat		ggg ggg			gac	_		_	_	agc	_	1536
157				tcg			gtg Val		cac					acc			1584
161			gcc				gcc Ala 535	cac					gac				1632
165	Trp	ccg					cag Gln					cac					1680
169	cac					atc	aaa Lys				tgc					aag	1728
173					atc		act Thr			tac					cat		1776
177				gaa			acg Thr		tgt					tgt			1824
181			tgt				cct Pro 615	ttc					gtc				1872
185 186	Phe	tac				Leu	tct Ser				His	gct				His	1920
	tgc						ttc Phe										1968

Input Set : A:\PTO.RJ.txt

					_											•	
191					645					650					655		
193	aaq	ctq	qcc	qqc	tqq	cac	cqc	atc	tcc	atc	atc	ttc	atc	ctt	aqt	qqc	2016
												Phe					
195	-			660	-				665					670		•	
	att	aca	aac		cta	acc	agc	acc		ttc	ctc	ccc	tac		gca	gag	2064
												Pro					
199			675				501	680				110	685	9		010	
	ata	aac		acc	aaa	tca	cac		aaa	ata	ata	gcc		ata	tta	ata	2112
												Ala					2112
202	Val	690	FIU	AIG	Gry	Ser	695	FIIC	GIY	пси	Бец	700	Cys	пец	FIIC	Val	
	~~~		++~	~~~	200	+~~		a+ ~	++~	~~~	~~~		+~~	224	~~~		2160
		_		_	_		_	_	_			ccg		_	_		2160
		ьeu	Pne	GIII	ser	_	GIII	Leu	Leu	GIU	_	Pro	пр	гуя	Ala		
	705					710	- 4				715					720	
												atc					2208
	Pne	Asn	Leu	ser		TTE	Val	Leu	Phe		Phe	Ile	Cys	GLY		Leu	
211					725					730					735		
												ttc					2256
	Pro	Trp	Ile	_	Asn	Ile	Ala	His		Phe	Gly	Phe	Leu		Gly	Met	
215				740					745					750			
												ttc					2304
	Leu	Leu		Phe	Ala	Phe	Leu		Tyr	Ile	Thr	Phe	_	Thr	Ser	Asp	
219			755					760					765				
												ctg					2352
222	Lys	Tyr	Arg	Lys	Arg	Ala	Leu	Ile	Leu	Val	Ser	Leu	Leu	Val	Phe	Ala	
223		770					775					780					
												atc					2400
226	Gly	Leu	Phe	Ala	Ser	Leu	Val	Leu	Trp	Leu	Tyr	Ile	Tyr	Pro	Ile	Asn	
227	785					790					795					800	
229	tgg	CCC	tgg	atc	gag	tac	ctc	acc	tgc	ttt	CCC	ttc	acc	agc	cgc	ttc	2448
230	Trp	Pro	Trp	Ile	Glu	Tyr	Leu	Thr	Cys	Phe	Pro	Phe	Thr	Ser	Arg	Phe	
231					805					810					815		
233	tgt	gag	aag	tac	gag	cta	gac	cag	gtg	cta	cac	taa					2484
234	Cys	Glu	Lys	Tyr	Glu	Leu	Asp	Gln	Val	Leu	His						
235				820					825								
238	<210	)> SI	EQ II	ON C	: 2												
239	<21	L> LI	ENGTI	H: 82	27												
240	<212	2> T	PE:	PRT													
241	<213	3 > OI	RGANI	ISM:	Mus	mus	culus	3									
243	<400	)> SI	EQUE	ICE:	2												
245	Met	Ala	Ser	Ala	Asp	Lys	Asn	Gly	Ser	Asn	Leu	Pro	Ser	Val	Ser	Gly	
246	1				5	_		_		10					15	_	
249	Ser	Arg	Leu	Gln	Ser	Arq	Lys	Pro	Pro	Asn	Leu	Ser	Ile	Thr	Ile	Pro	
250		-		20		_	-		25					30			
253	Pro	Pro	Glu	Ser	Gln	Ala	Pro	Gly	Glu	Gln	Asp	Ser	Met	Leu	Pro	Glu	
254			35					40			. 1	-	45		-	-	
	Ara	Ara		Asn	Pro	Ala	Tyr		Lys	Ser	Val	Ser		Gln	Glu	Pro	
258	- J	50	•				55	/	4 -			60			<b>-</b>	_	
	Ara		Ara	Trp	Gln	Glu		Ala	Glu	Lvs	Ara	Pro	Glv	Phe	Ara	Ara	
262		1	3	P		70	1			-1-	75		1		3	80	
						. •					. •						

Input Set : A:\PTO.RJ.txt

265 266	Gln	Ala	Ser	Leu	Ser 85	Gln	Ser	Ile	Arg	Lys 90	Ser	Thr	Ala	Gln	Trp 95	Phe
269	Gly	Val	Ser	Gly		Trp	Glu	Gly			Gln	Asn	Trp			Arg
270				100			_		105	_				110		
273 274	Ser	Leu	His 115	His	Cys	Ser	Val	His 120	Tyr	Gly	Arg	Leu	Lys 125	Ala	Ser	Cys
277 278	Gln	Arg	Glu	Leu	Glu	Leu	Pro 135	Ser	Gln	Glu	Val	Pro 140	Ser	Phe	Gln	Gly
	Thr		Ser	Pro	Lve	Pro		T.ve	Met	Pro	Tave		T/a l	Agn	Dro	T.011
282	145					150		-			155			_		160
285	Ala	Arg	Gly	Arg	Ala	Phe	Arg	His	Pro	Asp	Glu	Val	Asp	Arg	Pro	His
286					165					170					175	
289	Ala	Ala	His	Pro	Pro	Leu	Thr	Pro	Gly	Val	Leu	Ser	Leu	Thr	Ser	Phe
290				180					185					190		
293	Thr	Ser	Val	Arg	Ser	Gly	Tyr	Ser	His	Leu	Pro	Arg	Arg	Lys	Arg	Ile
294			195					200					205			
297	Ser	Val	Ala	His	Met	Ser	Phe	Gln	Ala	Ala	Ala	Ala	Leu	Leu	Lys	Gly
298		210					215					220				
301	Arg	Ser	Val	Leu	Asp	Ala	Thr	Gly	Gln	Arg	Cys	Arg	His	Val	Lys	Arg
	225					230					235					240
305	Ser	Phe	Ala	Tyr	Pro	Ser	Phe	Leu	Glu	Glu	Asp	Ala	Val	Asp	Gly	Ala
306					245					250					255	
309	Asp	Thr	Phe	Asp	Ser	Ser	Phe	Phe	Ser	Lys	Glu	Glu	Met	Ser	Ser	Met
310				260					265					270		
313	Pro	Asp	Asp	Val	Phe	Glu	Ser	Pro	Pro	Leu	Ser	Ala	Ser	Tyr	Phe	Arg
314			275					280					285			
317	Gly	Val	Pro	His	Ser	Ala	Ser	Pro	Val	Ser	Pro	Asp	Gly	Val	His	Ile
318		290					295					300				
321	${\tt Pro}$	Leu	Lys	Glu	Tyr	Ser	Gly	Gly	Arg	Ala	Leu	Gly	Pro	Gly	Thr	Gln
322	305					310					315					320
325	Arg	Gly	Lys	Ąrg	Ile	Ala	Ser	Lys	Val	Lys	His	Phe	Ala	Phe	Asp	Arg
326					325					330					335	
329	Lys	Lys	Arg	His	Tyr	Gly	Leu	Gly	Val	Val	Gly	Asn	Trp	Leu	Asn	Arg
330				340					345					350		
333	Ser	Tyr	Arg	Arg	Ser	Ile	Ser.	Ser	Thr	Val	Gln	Arg	Gln	Leu	Glu	Ser
334			355					360					365			
337	Phe	Asp	Ser	His	Arg	Pro	Tyr	Phe	Thr	Tyr	$\mathtt{Trp}$	Leu	Thr	Phe	Val	His
338		370					375					380				
341	Ile	Ile	Ile	Thr	Leu	Leu	Val	Ile	Cys	Thr	Tyr	Gly	Ile	Ala	Pro	Val
	385					390					395					400
345	Gly	Phe	Ala	Gln	His	Val	Thr	Thr	Gln	Leu	Val	Leu	Lys	Asn	Arg	Gly
346					405					410					415	
349	Val	Tyr	Glu	Ser	Val	Lys	Tyr	Ile	Gln	Gln	Glu	Asn	Phe	Trp	Ile	Gly
350				420					425		٠.			430		
353	Pro	Ser	Ser	Ile	Asp	Leu	Ile	His	Leu	Gly	Ala	Lys	Phe	Ser	Pro	Cys
354			435					440					445			
357	Ile	Arg	Lys	Asp	Gln	Gln	Ile	Glu	Gln	Leu	Val	Arg	Arg	Glu	Arg	Asp
358		450					455					460				
361	Ile	Glu	Arg	Thr	Ser	Gly	Cys	Cys	Val	Gln	Asn	Asp	Arg	Ser	Gly	Cys

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/534,894

DATE: 05/25/2005 TIME: 11:40:09

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\05252005\J534894.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:28 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:25